



# FACILITY COMPLIANCE INSPECTION REPORT

## Division of Waste Management

### Solid Waste Section

**UNIT TYPE:**

Lined MSWLF		LCID		YW		Transfer		Compost		SLAS		COUNTY: <b>Chatham</b> PERMIT NO.: <b>19-08</b> FILE TYPE: COMPLIANCE
Closed MSWLF		HHW		White goods		Incineration		T&P		FIRM		
CDLF		Tire T&P / Collection	<b>X</b>	Tire Monofill		Industrial Landfill		DEMO		SDTF		

**Date of Site Inspection:** June 26, 2012 **Date of Last Inspection:** October 11, 2011

**FACILITY NAME AND ADDRESS:**

Metro Energy Corporation Scrap Tire Collection and Processing Facility  
3313 Bowers Store Road  
Silk Hope, NC 27344

**GPS COORDINATES:** N: 35.77401 E: -79.32060

**FACILITY CONTACT NAME AND PHONE NUMBER:**

Michael Tucker, President  
Metro Energy Corporation  
c. 919-818-6807  
w. 919-818-9476  
work truck. 919-886-0020  
h. 919-542-1044  
[mtucker@metroenergync.com](mailto:mtucker@metroenergync.com)

**FACILITY CONTACT ADDRESS:**

Michael Tucker, President  
Metro Energy Corporation  
11312 US 15-501 Hwy, North  
Suite 107-103  
Chapel Hill, NC 27517

**PARTICIPANTS**

John Patrone, NCDENR – Solid Waste Section (SWS)  
Michael Tucker, President – Metro Energy Corporation

**STATUS OF PERMIT:**

Permit To Operate (PTO) issued June 14, 2011  
Permit To Construct (PTC) issued in conjunction with PTO

**PURPOSE OF SITE VISIT:**

Comprehensive Audit

**STATUS OF PAST NOTED VIOLATIONS:**

None

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**OBSERVED VIOLATIONS**

None

The item(s) listed above were observed by Section staff and require action on behalf of the facility in order to come into or maintain compliance with the Statutes, Rules, and/or other regulatory requirements applicable to this facility. Be advised that pursuant to N.C.G.S. 130A-22, an administrative penalty of up to \$15,000 per day may be assessed for each violation of the Solid Waste Laws, Regulations, Conditions of a Permit, or Order under Article 9 of Chapter 130A of the N.C. General Statutes. Further, the facility and/or all responsible parties may be subject to enforcement actions including penalties, injunction from operation of a solid waste management facility or a solid waste collection service and any such further relief as may be necessary to achieve compliance with the North Carolina Solid Waste Management Act and Rules.

**ADDITIONAL COMMENTS**

On June 26, 2012, John Patrone met with Michael Tucker to conduct a comprehensive audit of the Metro Energy Corporation Scrap Tire Collection and Processing Facility on Bowers Store Road in Silk Hope, Chatham County.

1. The facility is permitted for a scrap tire collection and processing operation.
2. The facility permit, site plan, operations plan, and contingency plan/emergency preparedness manual were discussed.
3. Facility capacity is  $\leq 1,200$  whole scrap tires and storage of  $\leq 10$  tons or  $\sim 25$  yd<sup>3</sup> of shredded tires at any one time.
4. At least seventy-five (75) percent of both scrap tires and processed tires delivered to the site shall be removed within one year of receipt.
5. The Metro Energy Corporation scrap tire hauler identification number is NCT02307.
6. Metro Energy Corporation hauls scrap tires to the facility. The facility is not open to the general public.
7. The scrap tire storage area is designated by large cement blocks, forming a rectangle. The blocks are to prohibit liquid runoff if there is a tire fire.
8. Ensure the scrap tire storage area is kept free of grass, underbrush, and other potentially flammable vegetation at all times.
9. Mr. Tucker stated that he trains employees in facility operations and that the emergency preparedness manual is included in the training.
10. The facility is permitted to produce shredded tires/crumb rubber manually.
11. Whole scrap tires were not observed on site. Three small piles of processed tires (doughnuts, alligators, and sidewalls) were on site, stored in the scrap tire storage area.
12. Per the facility operations plan, the maximum size of the whole scrap tire pile is 50' x 20' x 10'.
13. Per the facility operations plan, the maximum size of processed scrap tire piles is 100 yd<sup>3</sup>.
14. A 50' buffer is required around the perimeter of each scrap tire pile.
15. Whole scrap tires and parts thereof capable of holding water stored outside shall be covered upon receipt or disposed of, processed, or removed within ten (10) days of receipt.
16. Mr. Tucker stated that a small number of scrap tires are reusable and sold to the general public and used tire businesses.
17. The emergency preparedness manual is required to be updated annually. It was last updated on June 18, 2012.
18. Emergency equipment stored on site was verified. Ensure emergency equipment is readily accessible.
19. There are two piles of dirt on site available for use in case of fire. A neighbor can apply with frontend loader or excavator.
20. The Chatham County Office of Fire Marshal issued a facility fire prevention permit, dated April 11, 2012.
21. A fire safety survey shall be conducted annually.
22. The Silk Hope Volunteer Fire Department will address an emergency at the facility.
23. The facility maintains records of the quantity of scrap tires and processed tires received. Scrap tire certifications from October 2011 (facility began operation) through April 2012 were reviewed. The facility received 27.73 tons of scrap tires, hauled from Republic Services of North Carolina LLC – Upper Piedmont Regional Landfill (73-04), of which 152 scrap tires were sold for reuse and  $\sim 1$  ton shredded tires remain on site.

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24. Mr. Tucker was reminded to ensure that a record is maintained of the destination name and address of where scrap tires are shipped-out to, including those sold for reuse.
25. All scrap tires received, minus those sold and those shredded remaining on site, have been used as construction material at the facility.
26. Mr. Tucker stated that shredded scrap tires have been used on site to construct a handicap walkway (to the mobile home/office), used in a water-shedding berm (for the mobile home/office), and used to construct three utility sheds (currently under construction). A few whole scrap tires, used for demonstration purposes, have been placed on the ground at the rear of the lot (filled with soil) for possible future construction of fencing around the perimeter of the site.
27. The facility intends to sell crumb rubber to manufacturers for use as tire-derived fuel, road bedding, recreational equipment, landscaping material, etc. Mr. Tucker stated that he would like the facility/site to become a teaching tool for the reuse of scrap tires. He would also like to construct and sell scrap tire utility sheds.
28. Please contact SWS-Permitting, Geof Little (919-707-8252), to inquire if the facility operations plan is required to be updated to reflect the use of scrap tires as construction material on site. Update facility site plan as necessary.
29. Ensure that SWS – Permitting has approved equipment related to mechanical shredded tire/crumb rubber production prior to purchase and installation. The facility will be required to obtain a permit modification prior to construction and operation of the mechanical shredded tire/crumb rubber production phase.
30. Ensure a record of financial assurance is maintained on site.
31. The facility is secured by a chain.
32. The facility has proper signage.
33. Mr. Tucker was given copies of 15A NCAC 13B .1106, .1107, and .1110.

Please contact me if you have any questions or concerns regarding this inspection report.



John Patrone  
Environmental Senior Specialist  
***Regional Representative***

Phone: 336-771-5095 Fax: 336-771-4631

Sent on: <u>July 5, 2012</u>	<input checked="" type="checkbox"/>	Email	<input type="checkbox"/>	Hand delivery	<input type="checkbox"/>	US Mail	Certified No. <u>  </u>
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Copies: Jason Watkins, Western District Supervisor  
Jessica Montie, Compliance Officer  
Ellen Lorscheider, Environmental Supervisor  
Geof Little, Environmental Engineer

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Digital pictures taken June 26, 2012  
by John Patrone DWM-SWS

Scrap tires used in construction of a handicap ramp



Scrap tires used in water shedding berm



Scrap tires used to construct utility shed (under construction)



Shredded scrap tires - sidewalls





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Shredded scrap tires – doughnuts



Shredded scrap tires – alligators



Scrap tires used to construct utility sheds (under construction)



Whole scrap tires (filled with soil) placed at rear of lot in anticipation of site perimeter fence construction

